SUBSURF	***************************************	TEWATER DISPOSAL	SYSTEM APPLI	CATION	Maine Dept. of Health & Human Services Division of Environmental Health, 11 SHS (207) 287-5672 FAX (207) 287-4172
A11. =	PROPERTY	LOCATION	>> CAUT	ION: LPI APPR	OVAL REQUIRED <<
City, Town, or Plantation	LAM	OWE 10+22	Town/City Lar	noine	
Street or Road	4401	A'S LANE,	Date Permit Issue	1111 Fee	\$ 265Double Fee Charged ()
Subdivision, Lot#	MARL	4 4 4 4	Delece	, ale	
Nama lant fine A	411	IT INFORMATION Owner	Local Plumbing II	nspector Signature	
Mailing Address	URAND.	. /	The Subsurface Waste	ewater Disposal	Owner Town State System shall not be installed until a
of Owner Applicant	LAN	NOOD COCK CAUE OWE NE	Permit is issued by the authorize the owner or	 Local Plumbing installer to insta 	Inspector. The Permit shall ill the disposal system in accordance surface Wastewater Disposal Rules.
Daytime Tel. #	(207)	460-5865			Lot# 14-A-22
I state and acknowled my knowledge and un	ge that the information derstand that any	ANT STATEMENT ation submitted is correct to the best of falsification is reason for the	I have inspected the insta		above and found it to be in compliance
Department and/or Low	andlera	ind, 1/8/18	with Subsurface Wastewa	ater Disposal Rules	s Application(1st Date Approved)
Signature	of Owner or Ap	plicant Date	Local Plumbing	Inspector Signatu	re (2nd Date Approved)
		PERM	IT INFORMATION		
SHORELAND Z	rstem t System rstem pansion pansion System nversion PERTY sq. ft. acres CONING No	THIS APPLICATION 1. No Rule Variance 2. First Time System Varian a. Local Plumbing Insp. b. State & Local Plumb 3. Replacement System Va a. Local Plumbing Insp. b. State & Local Plumb 1. Single Family Dwelling Uni 2. Multiple Family Dwelling Uni 2. Multiple Family Dwelling Uni 3. Other: (SPECIFY) Current Use: Seasonal Year	ector Approval ing Inspector Approval ing Ins	1. Complete 2. Primitive S 3. Alternative S 4. Non-engin 5. Holding Ta 6. Non-engin 7. Separated 8. Complete 9. Engineere 10. Engineere 11. Pre-treatm 12. Miscellane 11. Drilled We 14. Public	SAL SYSTEM COMPONENT(S) Non-engineered System System (graywater & alt. toilet) Toilet, specify: Leered Treatment Tank (only) Leered Disposal Field (only) Laundry System Engineered System(2000 gpd or more) d Treatment Tank (only) d Disposal Field (only) Lent, specify: Lous components PEOF WATER SUPPLY Leered Treatment Tank (only) System Engineered System(2000 gpd or more) Disposal Field (only) Lent, specify: Leous components Leof WATER SUPPLY Leous Components Leof WATER SUPPLY Leous Cother: Leof Cotherity Leof
TREATMENT					
TREATMENT TANK 1. Concrete a. Regular b. Low Profile 2. Plastic 3. Other: CAPACITY / O gallons SOIL DATA & DESIGN CLASS PROFILE CONDITION		DISPOSAL FIELD TYPE & S 1. Stone Bed 2. Stone Tree 3. Proprietary Device a. Cluster Array c. Linea b. Regular.load d. H-20 4. Other. SIZE Sq. ft lin. ft DISPOSAL FIELD SIZING	If Yes or Maybe, s If Yes or Maybe, s If Oload If Yes or Maybe, s If Compared to the compared	I. No 2. Yes 3. Maybe If Yes or Maybe, specify one below: a. Multi-compartment Tank b. Tanks in Series c. Increase in Tank Capacity d. Fifter on Tank Outlet EFFLUENT/EJECTOR PUMP	
t Observation Hole # epth	721	 1. Medium - 2.6 sq. ft./gpd 2. Medium-Large - 3.3 sq. ft./g 3. Large - 4.1 sq. ft./gpd 4. Extra Large - 5.0 sq. ft./gpd 	2. May be Required 3. Required 5. Specify only for eng	wired Profits	3. Section 4G (meter readings) ATTACH WATER METER DATA LATTITUDE AND LONGITUDE at Center of Disposal Area Lat. Lon. Lon. Lon. Lon. Lon. Lon. Lon. Lon
ertify that on / t the proposed syster Site Evaluator	TI IS IN COMPRIANCE	SITE EVA (date) I completed a site evaluation we with the State of Maine Subsurface SE#	LUATOR STATEMENT on this property and state to ce Wastewater Disposal Ru 213 125	les (10-144A CMR	red are accurate and
Site Evaluator Nate: Changes to o	HEN 11 Jame Printed or deviations i	TOWER (257) Telephore Nurr from the design should be co	hber Enfirmed with the Site	E-mail Address Evaluator.	Page 1 of 3 HHE-200 Rev. 08/2011

SUBSURFACE WASTEWATER DISPOSAL SY	OPPORTMENT OF Health & Human Service Division of Environmental Health
Street	(207) 287-5672 Fax: (207) 287-3165
LAMOINE (XO)	Boro Woods Owner's Name
SITE PLAN Scale 1"=	TATHON DANDULAND
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#/	Continue on Map 24
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Dest 7 19 1 Bedrock	Factor [] Restrictive Laver
Tonie Condition Pit Depth	Profile Condition
	[]
#213	1/201.0
Cita Daniant Ci	Page 2 of 3
Site Evaluator Signature SE #	Date HHE-200 Rev. 02/11

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION	Department of Health & Human Services Division of Environmental Health
Town, City, Plantation Street, Road, Subdivision	(207) 287-5672 Fax: (207) 287-3165
LAMOWED MALLBOLD WOODS	Owner's Name
SUBSURVACE WASTEWATER DISPOSAL PLAN	NATHAN DANDURWO
Danka: WASTEWATER DISPOSAL PLAN	
Aby & Election 88' PROPISED	SCALE: 1"= 20 FT.
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ABLE II A STATE	BELOW!
FILL REQUIREMENTS X CONSTRUCTION ELEVATIONS	RI EVATION DEED ENGINEER
Depth of Fill (Upslope) /Finished Grade Elevation -65%	ELEVATION REFERENCE POINT (78a) Location & Description: Auroparate (18b) Reference Plevation:
Depth of Fill (Downslope) 9" 25 Top of Distribution Pipe or Proprietary Device Bottom of Disposal Area 89" F	Reference Plevation:
1016	=O" TXRE
SURFACE & MIX 131 15 21 FIN	Scale Scale
GROAVICISAND FICE	ADE Horizontal 1"= 10 ft.
SOIL WOER DISPORM 39/	Vertical 1"= 5 ft.
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PROUND STONE PER STANE PER SECTION	
SECTION 11, TABLE 11 H OF CODE	(ABLE 11 B OF CODE
#213 1/25/18	Page 3 of 3
Site Evaluator Signature SE # Date	HHE-200 Rev. 02/11

SECTION 11 QUALITY ASSURANCE AND QUALITY CONTROL

A. INSTALLATION

- General: On sites with fine soil textures, excavations that expose the bottom and sidewall area of the disposal 1. field must not be carried out when the soil moisture content is above the plastic limit, and except when correcting a nuisance, there is no practical alternative, the LPI agrees, and special construction techniques are used. The absolute plastic limit can be estimated by rolling the soil with the fingers. If the soil forms a wire or rod 1/8th of an inch in diameter and does not crumble when handled, the soil moisture content is too high to proceed with the excavation. Septic systems should not be installed when the seasonal water table is high,
- Dig Safe Law: The "Dig Safe Law" 23 M.R.S. § 3360-A places certain notification requirements on any 2. person doing excavations. Excavation is broadly defined to mean any operation in which earth, rock or other material on or below the ground is moved or otherwise displaced by means of power tools, power equipment or explosives and including grading, trenching, digging, ditching, drilling, auguring, tunneling, scraping and cable or pipe driving, except tilling of the soil and gardening or agricultural purposes. 3.
- For a free Dig Safe in Maine information kit, contact the Maine Public Utilities Commission: 1-800-452-4699 http://www.state.me.us/mpuc or by email: maine.puc@maine.gov. (Contact information is accurate as of the

B. SITE PREPARATION

- Site preparation requirements: Prior to the placement of any backfill material, the ground surface must be 1. (a)
 - Soil erosion and sediment control: In areas adjacent to a water body or wetlands, preventative erosion and sediment control measures must be employed consistent with Section 11(M).
 - Clearing: Vegetation must be cut and removed from the area where backfill material is (b)
- Grubbing: The area under the disposal area must have the organic soil horizon removed including but not 2. limited to all stumps and roots. 3.
- Scarify the site: The area under the disposal area must be thoroughly roughened. If plowing is used, it must be done parallel to the topographic contour in such a direction that each plow furrow will be thrown up-slope. The soil should be broken up to a depth of 6 to 8 inches. Alternatively, a rototiller or the teeth of a backhoe 4.
- Transitional horizon: On sites where the backfill material is coarser than the original soil, a minimum of 4 inches of backfill material must be mixed into the original soil to form a transitional horizon beneath the
- Fill large holes: If large holes are left as a result of stump and/or stone and/or any removal of the "A" or "Ap" 5. (plow layer) soil horizon these noles must be filled with suitable backfill material that meets the requirements

C. EXCAVATION

Excavation requirements: Any excavation required for the installation of a disposal field must comply with all 1.

- 2. Disposal field stone: The stone used in disposal fields must meet the following requirements:
 - (a) General: Where used, the stone must cover the distribution pipes and extend the full width and length of the disposal field.
 - (b) Thickness: The disposal field stone depth for beds must extend at least 7 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes. For disposal trenches, disposal field stone depth must extend at least 12 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes.
 - (c) The disposal field stone must be clean, uniform in size and free of fines, dust, ashes, or clay. It must conform to one of the nominal stone sizes listed in Table 11B.
 - (i) Stone specifications: A site evaluator may define a more stringent standard for stone size for any particular system.
 - (d) The disposal field stone may be loaded onto the disposal field site, using a back-hoe, front-end loader, or dump truck. This operation must be carried out from the sides of the disposal field, rather than by driving onto the prepared area of the disposal field. In the case of large disposal fields, tracked equipment may be operated within the disposal field. This equipment must not exert a ground pressure in excess of eight pounds per square inch. The disposal field stone must be pushed in front of the vehicle, such that a minimum of one foot of stone is maintained beneath the vehicle track and the original soil surface.

TABLE 11B Maximum Percent passing by weight

Sieve Size	Nominal Stone Size		
	1 ½ inches	3/4 inches	
2 inches	100	100	
1 ½ inches	95 - 100	100	
3/4 inches	0 - 40	90 - 100	
½ inches	0 - 20	0 - 55	
3/8 inches	0 - 8	0 - 25	
#4	0 - 5	0 - 10	
#200	0 - 2	0 - 2	

- 3. Covering the disposal field stone: The disposal field stone must be covered with a layer of filter fabric or 2 inches of hay, as the laying of the distribution pipes progresses.
- 4. Covering the stone with filter fabric:
 - (a) Overlapping filter fabric sheets: Edges of adjacent sheets of fabric must be overlapped by a minimum of 6 inches; and
 - (b) Fabric requirements: The filter fabric specified in the system design must have: adequate tensile strength to prevent ripping during installation and backfilling, adequate air permeability to allow free passage of gases; and adequate particle retention to prevent downward migration of soil particles into the disposal field. The minimum physical properties for the fabric must be 4.0 ounces/square yard (per ASTM D-3776).

- 2. Bottom of disposal field: The bottom of each disposal field must be installed at the elevation specified on the permit. It must be maintained to a level grade no greater than 2 inches within 100 feet. Note: The bottom of a disposal field serves as the final stage of the distribution network. 3.
- Avoid unnecessary compaction: Excavation must be carried out in a manner that will avoid unnecessary compaction of both sidewalls and bottom area. Heavy equipment, especially rubber-tired vehicles such as front-end loaders, should not be driven over the exposed bottom of the disposal field. Excavation should be carried out when possible, by a back-hoe operating from outside the perimeter of the previously excavated portions of the disposal fields. 4.
- Reopen smeared or compacted bottom or sidewall surfaces: If any portion of the bottom or sidewalls becomes smeared or compacted, that portion must be scarified to reopen soil pores. Roto-tilling may be necessary to 5.
- Weather conditions: Work should be scheduled so that excavated areas are not exposed to rainfall or windblown silt. Any loose soil or debris that is washed or otherwise deposited within the excavation must be carefully removed prior to backfilling. Additionally, disposal fields should not be installed in frozen ground or when the ambient air temperature is below freezing, especially if construction will take place over several D. CONSTRUCTION

- Construction: The installer of the system must make certain that the system and all its component parts are 1. installed in conformance with the requirements of these Rules, the plan prepared by the site evaluator, and with any special engineering design requirements approved or required by the Department, pursuant to an
- Soil and backfill material: The installer of the system must make certain that the construction and installation 2. are performed without adversely affecting the capacity of the soil or backfill material to adequately absorb or

e. Dackfill placement for disposal areas including fill extensions

- General: Selection and placement of backfill must comply with the requirements of this Section. 2.
- Backfill standards: The backfill material must be gravelly coarse sand which meets the requirements of Table

TABLE 11A Backfill Textural Gradation

Sleve Size	Parant Day	
3 inches	Percent Passing by Weight	
#4	100	
#10	75-100	
#60	50-100	
#100	10-50	
#200	2-20	
Clay Fraction	2-8	
- 10011011	0-2	

(a) Field determination of backfill: Due to the difficulty of obtaining sieve analyses and the variability of backfill material, the following procedures can be used in the field to determine the suitability of backfill material. The backfill is suitable if the soil texture is loose single grains, the individual sand grains can be readily seen (similar to salt or sugar grains) and felt, and the following conditions are observed: If squeezed in the hand when dry, it will fall apart when the pressure is released but has enough fines to stain the lines in the palm of the hand; or, if squeezed when moist, it will form a cast that will crumble when

SEPTIC SYSTEM USER NOTES

- This septic system has been designed to meet requirements of the State of Maine Subsurface Wastewater Disposal Rules, 10-144A CMR 241. Because site evaluators are not notified when local ordinances are enacted which exceed state requirements, it is the septic system owners responsibility to ensure that this septic system design (IHHE-200 form) is in compliance with applicable local ordinances. This can be done by contacting your local plumbing inspector and asking about local ordinances which differ from those required in the Rules.
- 2. It is the septic system owner's responsibility to obtain any local, state, or federal permit(s) that may required for the installation of this septic system (work within or adjacent to awetland may require a state and/or federal permit). Contact the Maine Department of Environmental Protection at 267-2111 and the Army Corps of Engineers at 628-8367 if you have any questions.
- 3. The use of a garbage grinder on a septic system is not recommended. Depending on use patterns, they can contribute a significant amount of particulate matter and grease to the system. Excessive use may result in promature failure. If a garbage grinder is to be used, additional septic tank capacity, a multi compartment septic tank, and/or more frequent septic tank pumping is recommended.
- 4. For new construction, it is recommended that the septic system owner install low volume toilets (1 1/2 gallons per flush or less) and other flow reducing fixtures such as low volume shower heads and faucets to minimize water consumption. A reduction in water usage will usually result in extended life of your septic system, all other things being equal.
- 5. It is the septic system owner's responsibility to limit water consumption and wastewater generation so that the septic system design capacity (design flow on the HHE-200 form) is not exceeded on any day. Activities which generate large amounts of wastewater should be spread out over several days where possible. Excessive use of a septic system on any day can cause the system to fail even though your use,
- 6. Do not connect floor or roof drains to a septic system. Your septic system is not designed to handle
- Do not dispose of backwash from water softeners or water treatment devices in your septic system. Large amounts of water can be generated from these devices which can overload a septic system.
- 8. Do not dispose of any hazardous or toxic substances in a septic system such as paint thinner, paints, varnishes, photographic solutions, pasticides, insecticides, organic solvents or degreasers and drain openers. Septic systems depend on living organisms to function properly. Toxic or hazardous material can, in effect, "kill" tine system and are a threat to pollute surface or groundwater resources. Instead of using a commercial degreaser or drain opener, which can be toxic, use one of the following:
 - A. A plunger or mechanical enake; or
 - B. Pour 1 handful of baking soda and 1/2 cup of white vinegar down the drain pipe and cover tightly for one minute. Repeat as necessary; or
 - C. Pour 1/2 cup sait and 1/2 cup baking soda down the drain followed by 6 cups of boiling water.
- 9. Do not dispose of any inert or non-biodegradable substances into your septic system such as disposable diapers, cat box litter, coffee grounds, cigarette filter, sanitary napkins, facial tissues and wet strength paper towels.
- 10. Do not dispose of large quantities of fats or grease into your septic system unless an external grease

trap has been designed for that purpose. Generally, an internal grease trap is inadequate to handle excessive amounts of grease or fat.

- 11. Do not add any septic tank cleaner or additive to your septic system to improve its function or prolong its useful operating life (this includes yeast, horse manure or commercial products). No effective product or material is recognized by State authorities and, in fact, some of these products can actually cause your septic system to fall.
- 12. Maintain your septic system by regularly having the septic tank pumped. Some biological breakdown of solids and grease occurs in septic tanks but the rate of accumulation virtually always exceeds the rate of biologic breakdown. If your septic tank is not pumped out often enough, solids and greases may buildup to the point where they enter your disposal ares. Once this material reaches the disposal area it will clog the soil surface and likely cause premature failure.

I recommend having your septic tank pumped or inspected after one year of use. The pumper can advise you of how often you need to have the septic tank pumped based on what he finds at this inspection (typically a septic tank will need to be pumped every two to five years). Keep in mind that you will need to adjust pumping frequency to coincide with changes in the way you use your system. The more your septic system is used, the more frequently that the septic tank should be pumped.

- 13. Do not drive over or store heavy materials on any part of your septic system unless it is specifically designed to handle heavy loads. Otherwise, crushed components may be the result and the system may fall.
- 14. Divert all surface water away from the septic tank and disposal area. Roof areas which contribute runoff water to the septic system site should have gutters installed to divert that water to another location.
- 15. PLEASE If you have any questions about your septic system or how to use if, call me (825-4528) and ask for advice. You can also call the State Agency responsible for regulating septic systems, the plumbing program in the Division of Health Engineering, at 287-5672.